

Some numbers and diagrams for CVMFS service

16.01.2025

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Machines

167 nodes:

- 92 CVMFS
 - 72 publishers
 - ~50 user communities
 - 10 user communities have > 1 publisher node
 - 4 S1 backends: apache
 - 6 S1 frontends: squid
 - 3 S0: apache
- 25 Ourproxy: squid

Number of publisher machines per community

```
2 atlas-nightlies-test.cern.ch:  
2 cms.cern.ch:  
2 conda-cache.cern.ch:  
2 test-s3.cern.ch:  
3 atlas-nightlies.cern.ch:  
3 cms-ib.cern.ch:  
3 sft-test.cern.ch:  
4 sft-nightlies-test.cern.ch:  
6 lhcbdev.cern.ch:  
7 projects.cern.ch:
```

Repo size

```
gonzalhu@pozo:~/ops/cvmfs/repo-size$ cat anal.txt
```

Name	Size	% of Total
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unpacked_cern_ch	1.11 PiB	81.2%
alice_cern_ch	73.6 TiB	5.26%
lhcb_cern_ch	28.9 TiB	2.07%
cms_cern_ch	20.5 TiB	1.47%
sft_cern_ch	18.9 TiB	1.35%
lhcbdev_cern_ch	17.2 TiB	1.23%
atlas-nightlies_cern_ch	17.3 TiB	1.24%
atlas_cern_ch	16.1 TiB	1.15%
unpacked-dev_cern_ch	10.6 TiB	0.76%
belle_cern_ch	7.97 TiB	0.57%

unpacked.cern.ch: biggest outlier repo.

- 82% of total CVMFS volume, 1.1PB (total is 1.42PB), 40x larger than next.
- 90% of number of files, 30 billion (total is 33.4B), 15x larger than next.
- Barely used from CERN domain machines:
 - <6% requests from CERN domain
 - ~30% requests to external S1s
- We're blind on its usage.

Requests	Path	% of Total
12,770,245	/cvmfs/cms-lb.cern.ch/	12.4%
11,355,680	/cvmfs/cms.cern.ch/	10.7%
10,818,621	/cvmfs/sft.cern.ch/	10.2%
9,597,830	/cvmfs/atlas.cern.ch/	9.1%
6,995,330	/cvmfs/sft-nightlies.cern.ch/	6.6%
6,749,449	/cvmfs/unpacked.cern.ch/	6.4%
4,761,153	/cvmfs/ams.cern.ch/	4.5%
4,580,255	/cvmfs/lhcb.cern.ch/	4.3%
3,529,841	/cvmfs/cms-lb.cern.ch/stage/	3.3%
3,371,375	/cvmfs/atlas-nightlies.cern.ch/	3.2%
2,359,938	/cvmfs/alice.cern.ch/	2.2%
2,144,175	/cvmfs/sft-nightlies.cern.ch/stage/	2.0%
2,020,249	/cvmfs/lhcbdev.cern.ch/	1.9%

Requests	Path	% of Total
35,251,211	/cvmfs/atlas.cern.ch/	13.0%
33,750,203	/cvmfs/ams.cern.ch/	12.3%
24,736,452	/cvmfs/sft.cern.ch/	9.0%
19,841,857	/cvmfs/atlas-nightlies.cern.ch/	7.2%
18,888,186	/cvmfs/cms-lb.cern.ch/	6.9%
16,705,411	/cvmfs/unpacked.cern.ch/	6.1%
15,221,438	/cvmfs/sft-nightlies.cern.ch/	5.6%
11,980,653	/cvmfs/lhcb.cern.ch/	4.2%
7,840,684	/cvmfs/alice.cern.ch/	2.8%
5,446,964	/cvmfs/ams.cern.ch/	1.9%
4,499,867	/cvmfs/lhcbdev.cern.ch/	1.7%

Requests	Path	% of Total
35,125,087	/cvmfs/unpacked.cern.ch/	51.1%
22,016,014	/cvmfs/cms-lb.cern.ch/	20.7%
5,911,759	/cvmfs/lhcbdev.cern.ch/	5.5%
4,862,609	/cvmfs/sft-nightlies.cern.ch/	4.5%
4,368,715	/cvmfs/atlas-nightlies.cern.ch/	4.1%
3,189,816	/cvmfs/lhcb.cern.ch/	3.0%
2,618,925	/cvmfs/cms.cern.ch/	2.4%
2,141,182	/cvmfs/alice.cern.ch/	2.0%
1,582,539	/cvmfs/sft.cern.ch/	1.4%
1,581,396	/cvmfs/cms-cl.cern.ch/	1.3%
1,317,094	/cvmfs/na62.cern.ch/	1.2%
1,157,954	/cvmfs/atlas.cern.ch/	1.0%

Rank	Requests	IP	PTR / Hostname	% of Total
1	17,481,869	129.93.227.97	cvmfs-stratum1-02.gridpp.rl.ac.uk	16.41%
2	15,051,227	129.93.244.109	cvmfs-stratum1-01.gridpp.rl.ac.uk	14.87%
3	14,123,681	192.12.15.18	kek2-cvm11.cc.kek.jp	13.26%
4	13,087,388	137.138.123.69	cvmfs-stc.sdcc.bnl.gov	12.22%
5	11,967,187	128.142.197.12	cvmfs-stc-vast.sdcc.bnl.gov	11.24%
6	8,566,122	131.225.191.178	cvmfs42.fnal.gov	8.04%
7	6,245,401	192.12.15.238	cvmfsdata25-backendha-01.cern.ch	5.86%
8	4,571,749	202.13.202.169	backup-cvmfs01.cern.ch	4.29%
9	4,352,029	130.246.217.2	cvmfsdata20-307d77256c.cern.ch	4.09%
10	4,348,131	130.246.217.3	lxcvmfs122.cern.ch	4.08%
11	4,151,685	202.122.33.59	cvmfs-probe-fdc4727d26.cern.ch	3.98%

